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NOTICE OF ALLOWANCE AND FEE(S) DUE

52835

7590

07/13/2010

HAMRE, SCHUMANN, MUELLER & LARSON, P.C. P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902 EXAMINER

PENG, KUO LIANG

ART UNIT PAPER NUMBER

1796

DATE MAILED: 07/13/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588.363	03/27/2007	Hitoshi Tamai	20162.0016USWO	9226

TITLE OF INVENTION: CURABLE COMPOSITION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/13/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further of indicated unless corrected maintenance fee notificated.	correspondence including description or directed other ions.	g the Patent, advance of serwise in Block 1, by (a	rders and notification of a) specifying a new corr	maintenance fees verspondence address	vill be ; and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for	
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							(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/588,363	03/27/2007	•	Hitoshi Tamai		20	162.0016USWO	9226	
FITLE OF INVENTION:	: CURABLE COMPOSI	TION						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/13/2010	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7				
PENG, KU	O LIANG	1796	524-588000	_				
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CFR 1.363). Change of correspo	ondence address (or Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
PTO/SB/47; Rev 03-0 Number is required.	cation (or "Fee Address' 2 or more recent) attach	'Indication form ed. Use of a Customer						
		A TO BE PRINTED ON	~	/				
PLEASE NOTE: Unle recordation as set forth	ess an assignee is identi n in 37 CFR 3.11. Comm	fied below, no assignee letion of this form is NO	data will appear on the T a substitute for filing a	patent. If an assign	ee is id	lentified below, the de	ocument has been filed for	
(A) NAME OF ASSIC	•		(B) RESIDENCE: (CIT	· ·	COUNT	RY)		
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Please check the appropri	ate assignee category or	categories (will not be pr	rinted on the patent):	┛ Individual Co	orporati	on or other private gro	oup entity Government	
4a. The following fee(s) a	are submitted:	41	b. Payment of Fee(s): (Pl		ny prev	iously paid issue fee	shown above)	
☐ Issue Fee	o small entity discount p	varmittad)	A check is enclosed) is atta	ahad		
	o small entity discount p fof Copies	,	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				ficiency, or credit any	
	•		overpayment, to Dep	posit Account Numb	er	(enclose a	n extra copy of this form).	
 Change in Entity Stat a. Applicant claims 	c us (from status indicated s SMALL ENTITY statu	/	☐ b. Applicant is no lo	onger claiming SMA	LL EN	ΓΙΤΥ status. See 37 CI	FR 1.27(g)(2).	
NOTE: The Issue Fee and	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte	ed from anyone other than	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party in	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/588,363	10/588,363 03/27/2007 Hitoshi Tamai		20162.0016USWO 9226		
52835 75	590 07/13/2010		EXAMINER		
HAMRE, SCHU	MANN, MUELLER	PENG, KUO LIANG			
P.O. BOX 2902		ART UNIT	PAPER NUMBER		
MINNEAPOLIS, I	MINNEAPOLIS, MN 55402-0902				
			DATE MAILED: 07/13/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 375 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 375 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/588,363	TAMAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Kuo-Liang Peng	1796	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet w (OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due coul	rse. THIS
2. X The allowed claim(s) is/are <u>1-3,5-23 and 27</u> .			
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	been received. been received in Applicaticuments have been receive	on No ed in this national stage application	
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTI	
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposit	st be submitted. Son's Patent Drawing Reviews Son Amendment / Comment of Son Should be written on the header according to 37 Consit of BIOLOGICAL MAT	w (PTO-948) attached ir in the Office action of the drawings in the front (not the bac FR 1.121(d). ERIAL must be submitted. Note	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's —	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowar	nce

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DETAILED ACTION

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed June 30, 2010 has been entered. Claims 1 and 19 are amended. Claims 4 and 24-26 are deleted. Claim 27 is added. Now, Claims 1-3, 5-23 and 27 are pending.
- 2. Claim rejection(s) under 35 USC 103 in the previous Office Action (Paper No. 20100522) is/are removed.

Allowable Subject Matter

- 3. Claims 1-3, 5-23 and 27 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

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The present claims are allowable for at least the following reason(s) over the closest reference: Kanamori (WO 02 085985, US 7 297 743)

Page 3

Kanamori discloses a structure comprising a transparent material such as glass, etc. and a cured product formed thereon. The cured product is derived from a composition comprising a vinyl polymer having reactive silicon containing group (a), a polyoxyalkylene polymer having a reactive silicon containing group, and a plasticizer having an acrylic component (c) (col. 3, lines 55-63 and col. 23, lines 6-16). The reactive silicon containing group is represented by the formula (1) of Kanamori where X represents a hydroxyl or hydrolysable group and R² is a substitute or unsubstituted univalent organic group containing 1-20 carbons, which reads on the vinyl polymer which contains at least one crosslinkable silyl group. The vinyl polymer has a main chain that is obtained from the living radical polymerization technique, which has a molecular weight distribution of less than 1.8. (col. 4, line 50 to col. 5, line 10, col. 5, line 65 to col. 6, line 11 and col. 12, lines 5-8). The vinyl polymer is preferable derived from acrylate and/or methacrylate monomers. (col. 4 lines 25-30). However, Kanamori does not teach or fairly suggest an additional layer having photocatalytic

activity-based antistaining properties deposited between the transparent substrate and the layer derived from the foregoing cured product.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuo-Liang Peng whose telephone number is (571) 272-1091. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim Seidleck, can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is

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available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

klp June 9, 2010

> /Kuo-Liang Peng/ Primary Examiner, Art Unit 1796